

***NATIONAL WEATHER SERVICE  
PRODUCT/SERVICE DESCRIPTION DOCUMENT (PDD)  
TYPE: Official Product  
DATE: January 30, 2003***

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METEOROLOGICAL IMPACT STATEMENT (MIS)

**Part 1 - Mission Connection**

**1. Product/Service Description:**

- The National Weather Services (NWS) Meteorological Impact Statement (MIS) is a unscheduled flow control and flight operations planning forecast. The MIS is valid 2-12 hours after issuance time and details weather conditions expected to adversely impact air traffic flow in the Center Weather Service Units (CWSUs) area of responsibility. At a minimum, a MIS should be issued when:

- a. Any of the follow conditions occur, are forecast to occur, and, if previously forecast, are no longer expected:
  - (1) Conditions meeting convective SIGMET criteria (see NWSI 10-811)
  - (2) Icing - moderate or greater
  - (3) Turbulence - moderate or greater
  - (4) Heavy Precipitation
  - (5) Freezing Precipitation
  - (6) Conditions at or approaching Low IFR (see NWSI 10-813)
  - (7) Surface wind/gusts ?30 knots
  - (8) Low Lever Wind Shear (surface to 2,000 feet)
  - (9) Volcanic ash, dust storms, or sandstorms
- b. In the forecasters judgement, the conditions listed above, or any others, will adversely impact the flow of air traffic within the Air Route Traffic Control Center (ARTCC) area of responsibility;
- c. The forecast lead time (the time between issuance and onset of a phenomenon), in the forecasters judgment, is sufficient to make issuance of a CWA unnecessary or premature.

**2. Purpose/Intended Use:**

National Weather Services CWSU is responsible for providing a forecast covering the ARTCC airspace of which they support. The MIS is written for FAA facilities such as ARTCC, Air Route Traffic Center System Command Center (ATCSCC), Terminal Radar Approach Control Facilities (TRACONs), and Airport Traffic Control Towers (ATCTs) responsible for making flow control-type decisions.

**3. Audience:**

The MIS is intended for government users (FAA).

**4. Presentation Format:**

The MIS is an alphanumeric weather advisory.

5. **Feedback Method:**

Comments regarding the MIS or technical comments or questions for the MIS product may be addressed to:

National Weather Service Headquarters  
Attn: Aviation Services Branch, OS23 rm13320  
1325 E-W Highway, SSMC2  
Silver Spring, MD 20910  
or e-mail comments to: [Kathleen.Schlachter@noaa.gov](mailto:Kathleen.Schlachter@noaa.gov).

## Part 2 - Technical

1. **Format and Science Basis:**

The Meteorological Impact Statement (MIS) product is composed of the format and content described in detail in National Weather Service Instruction 10-803.

2. **Availability:**

The MIS is an event-driven product and issued during scheduled CWSU duty hours. No MIS will be issued during CWSU off-duty hours. The MIS is available on the normal NWS dissemination circuits including the INTERNET and FAA circuits.

3. **Additional Information:**

Refer to NWSI 10-803, Support to Air Traffic Control Facilities for a detailed technical description of the MIS. The URL for NWSI is: <http://www.nws.noaa.gov/directives/>.

Examples of the MIS may be seen at: <http://aviationweather.gov/cwsu>.